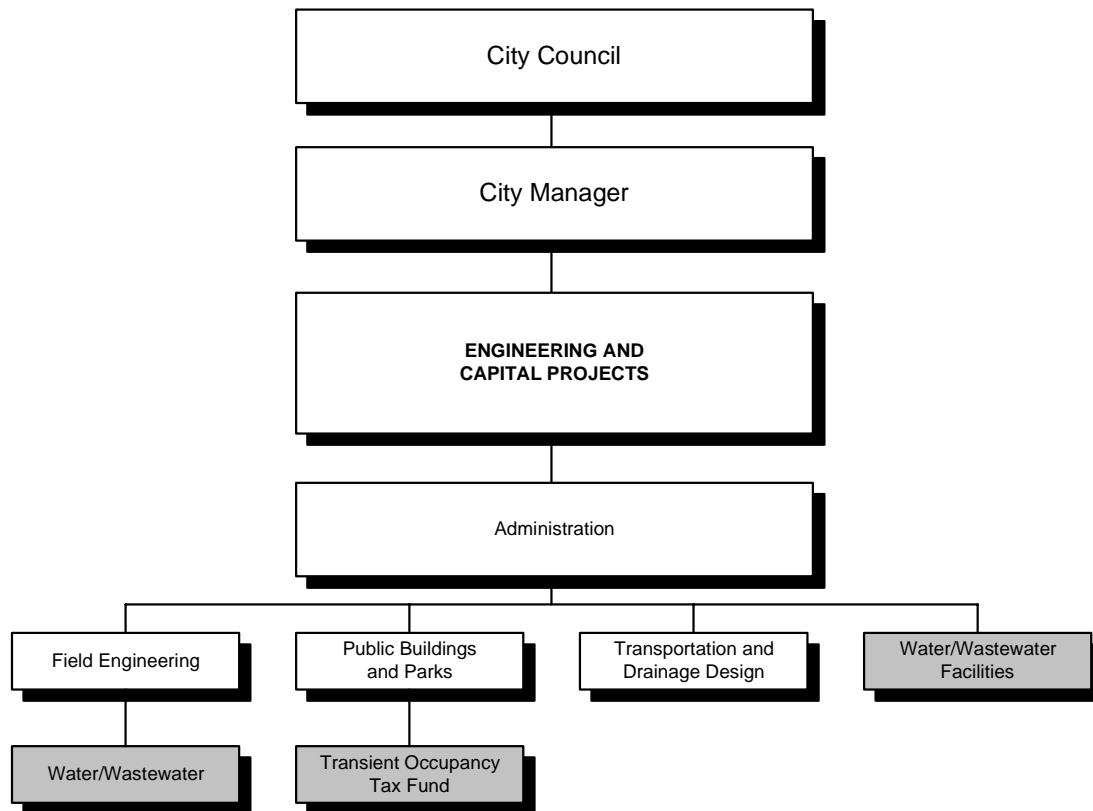


Engineering & Capital Projects



To be responsive to the public, Mayor and City Council in the development and enhancement of the urban environment and to provide quality public facilities, which are safe, efficient, cost effective and in accordance with the scheduled needs.

Engineering and Capital Projects



Engineering and Capital Projects

Department Description

The Engineering and Capital Projects Department is a full-service Civil Engineering “firm” with over 400 employees who are responsible for the planning, design, management and construction of public improvement projects throughout the City of San Diego.

The nature of the work varies from developing the infrastructure for San Diego’s new downtown ballpark; expanding the Convention Center; widening the beachfront boardwalk; building skateboard parks, libraries and recreation centers; and rebuilding older streets and water/sewer pipelines.

Milestones Met/Services Provided

The Water and Wastewater Facilities Division has exceeded an Environmental Protection Agency mandate by replacing 27.36 miles of deteriorated concrete sewer pipes in Fiscal Year 2002. The division also exceeded the Department of Health Services mandate replacing 13.22 miles of cast iron water mains.

The Bridge section of the Transportation and Drainage Design Division maintains an inventory of 425 bridges in the City. Currently the section is working on the design of 32 projects, ranging from barrier rail replacement to the construction of a bridge replacement.

The construction of the Nobel Drive bridge from Shoreline Drive to Miramar Road, including an interchange with Interstate 805, has been completed. This project won several awards including American Society of Civil Engineers, American Public Works Association, and Construction Management Team of the Year.

Design of the Montgomery Field Electrical Upgrade Project was completed and construction is anticipated to begin in Spring 2002.

The design and environmental documents for the North Harbor Drive Seismic Retrofit Project and the West Mission Bay Seismic Retrofit Project were completed. Both projects are anticipated to be in construction the later part of 2002.

The design and construction of traffic signal interconnect systems to establish communication links between the City's Traffic Control System and 90 traffic signals in the Golden Triangle, Genesee Avenue, Park Boulevard, and Fairmount Avenue areas have been completed.

The design and construction of five changeable message signs in Centre City for dissemination of traffic information have been completed.

Construction of the Los Peñasquitos Canyon (El Cuervo) Mitigation Project was completed.

Currently heading the creation of the Americans with Disabilities Act Review Process for all Capital Improvements Program projects.

A Gold Nugget Award from the Premier Building Show and Building Magazine, and a Roses and Thorn Award from the Regional Task Force on the Homeless for Becky’s House Transitional Housing.

An Orchid for Artwork from Orchids and Onions Award for Fire Station #44 in Mira Mesa.

Construction of Phase I of State Route 56 from the new Carmel Mountain Road interchange to Black Mountain Road is anticipated to be completed in Fall 2002.

Completion of the Convention Center Expansion Project.

Completion of Walls of Excellence Project in South Eastern San Diego.

Future Outlook

The Engineering and Capital Projects Department continually provides the highest level of service to the public. All the milestones that have been met or will be met this year contribute to reaching the Mayor's Goals:

To reduce traffic congestion (Goal #2), the department will continue to: design (both in-house and consultant management) major roadwork and bridge projects; design and construct traffic signals, streetlights, flashing beacons, and traffic signal modifications; continue construction of State Route 56, which is anticipated to be open by July 2004.

To create neighborhoods we can be proud of (Goal #3), the department will continue to: ensure all Capital

Improvements Program projects conform with the Americans with Disabilities Act; assist non-profit agencies to build brick and mortar projects, using Community Development Block Grant funding, to enhance services to their constituents; build libraries, fire stations, police stations, and community service centers to enhance services to our citizens.

To clean up our beaches and bays (Goal #4): the Water/Wastewater Facilities Division has increased its production and output. Historically the division has replaced 18-20 miles of concrete sewer mains to meet the Environmental Protection Agency mandate. The division has increased the level of execution of projects and is targeting the replacement of 40 miles of concrete sewer mains in calendar year 2004.

Engineering and Capital Projects

Significant Budget Adjustments

Administration	Positions	Cost
Personnel Expense Adjustments Adjustments to reflect the annualization of the Fiscal Year 2002 negotiated salary compensation schedule, average salaries, fringe benefits and other personnel expense adjustments.	0.00 \$	60,980
Non-Discretionary Adjustments to reflect expenses that are determined outside of the department's direct control. Examples of these adjustments include utilities, insurance, and rent.	0.00 \$	(7,922)
Field Engineering	Positions	Cost
Personnel Expense Adjustments Adjustments to reflect the annualization of the Fiscal Year 2002 negotiated salary compensation schedule, average salaries, fringe benefits and other personnel expense adjustments.	0.00 \$	416,773
Non-Discretionary Adjustments to reflect expenses that are determined outside of the department's direct control. Examples of these adjustments include utilities, insurance, and rent.	0.00 \$	72,369
Support for Field Engineering Transportation Allowance (Reimbursable) Increase to cover new mileage reimbursement rates approved in Fiscal Year 2001, and an increase in Field Division staff. Funded by revenue generated from subdivision inspections.	0.00 \$	50,000
Budgetary Savings Plan Reduction in a division lease agreement.	0.00 \$	(14,000)
Public Buildings and Parks	Positions	Cost
Personnel Expense Adjustments Adjustments to reflect the annualization of the Fiscal Year 2002 negotiated salary compensation schedule, average salaries, fringe benefits and other personnel expense adjustments.	0.00 \$	149,343

Engineering and Capital Projects

Significant Budget Adjustments (continued)

Public Buildings and Parks (continued)	Positions	Cost
Staffing and support for Citywide Geographic Information System/Capital Improvements Program (Reimbursable) Addition of 1.00 Assistant Civil Engineer and 1.00 Information Systems Analyst II and support costs for project management software. This addition will support the City's Geographic Information System/Capital Improvements Program efforts. Funded by revenue generated from Capital Improvements Program projects.	2.00 \$	219,789
Non-Discretionary Adjustments to reflect expenses that are determined outside of the department's direct control. Examples of these adjustments include utilities, insurance, and rent.	0.00 \$	(55,144)
Transportation and Drainage Design	Positions	Cost
Personnel Expense Adjustments Adjustments to reflect the annualization of the Fiscal Year 2002 negotiated salary compensation schedule, average salaries, fringe benefits and other personnel expense adjustments.	0.00 \$	304,933
Staffing and Support for Traffic Control Section (Reimbursable) Addition of 1.00 Associate Traffic Engineer and 2.00 Assistant Traffic Engineers and support for the increased workload associated with traffic control plans as a result of going from 20 to 40 miles of sewer main replacement per year. Funded by MWWD.	3.00 \$	330,652
Staffing and Support for Environmental Review (Reimbursable) Addition of 1.00 Associate Planner and support to account for the increased workload of environmental issues related to the local, state and federal environmental permitting process and the reduction of the staff time of 0.50 Senior Planner to the Community Service Center Program. The position will assist staff throughout the environmental process by addressing environmental and permitting issues, and reviewing environmental documents. Funded by revenue generated from Capital Improvements Program projects.	1.00 \$	90,798

Engineering and Capital Projects

Significant Budget Adjustments (continued)

Transportation and Drainage Design (continued)	Positions	Cost
Non-Discretionary Adjustments to reflect expenses that are determined outside of the department's direct control. Examples of these adjustments include utilities, insurance, and rent.	0.00 \$	(34,873)
Water/Wastewater Facilities	Positions	Cost
Personnel Expense Adjustments Adjustments to reflect the annualization of the Fiscal Year 2002 negotiated salary compensation schedule, average salaries, fringe benefits and other personnel expense adjustments.	0.00 \$	373,595
Staffing and Support for Wastewater Design Addition of 1.00 Associate Civil Engineer, 1.00 Assistant Civil Engineer and support to handle the increased workload of managing and supporting the Sewer System Canyon Access Project. Addition of 1.00 Assistant Civil Engineer, 3.00 Principal Engineering Aides and support to assist with the current workload of the planning and predesign of wastewater projects.	6.00 \$	565,829
Staffing and Support for Wastewater Contracts Processing Addition of 1.00 Assistant Civil Engineer, 2.00 Associate Management Analysts, 5.00 Word Processing Operators and support for contract processing related to sewer line replacement, which is anticipated to double in Fiscal Year 2003 and increase an additional 33% thereafter.	8.00 \$	518,624
Staffing and Support for Wastewater Preliminary Engineering/ Capital Improvements Projects Addition of 1.00 Associate Civil Engineer, 2.00 Assistant Civil Engineers and support to manage consultants in the planning of approximately 15 miles of sewer main replacements. The 1.00 Associate Planner and 1.00 Assistant Planner will handle additional sewer replacement projects.	5.00 \$	484,760
Non-Discretionary Adjustments to reflect expenses that are determined outside of the department's direct control. Examples of these adjustments include utilities, insurance, and rent.	0.00 \$	346,941

Engineering and Capital Projects

Significant Budget Adjustments (continued)

Water/Wastewater Facilities (continued)	Positions	Cost
Staffing and Support for Wastewater Program Management Addition of 2.00 Associate Civil Engineers, 1.00 Assistant Civil Engineer and support to handle the work requirements with project management software, Capital Improvements Program Financial Reporting System (CIPRES), Computer Aided Drafting and Design (CADD) and Engineering Applications Support.	3.00 \$	315,577
Staffing and Support for Wastewater Fiscal/Clerical Support Addition of 1.00 Senior Clerk Typist and 0.50 Clerical Assistant II and support to provide additional clerical support for the division due to the increase in workload and staff.	1.50 \$	100,912
Staffing and Support for Administration Addition of 1.00 Associate Management Analyst and support to handle the increased workload brought about by the need to multi-phase fund projects.	1.00 \$	93,551
Public Buildings and Parks - TOT	Positions	Cost
Non-Discretionary Adjustments to reflect expenses that are determined outside of the department's direct control. Examples of these adjustments include utilities, insurance, and rent.	0.00 \$	63,410
Water/Wastewater - Field Engineering	Positions	Cost
Personnel Expense Adjustments Adjustments to reflect the annualization of the Fiscal Year 2002 negotiated salary compensation schedule, average salaries, fringe benefits and other personnel expense adjustments.	0.00 \$	142,041
Staffing and Support for Water and Wastewater Construction Inspection Addition of 10.00 Assistant Civil Engineers to provide inspection services and serve as the Resident Engineers in charge of construction in support of pipeline construction and replacement work. Support includes transportation allowance for staff to travel to and from various job sites.	10.00 \$	1,009,170

Engineering and Capital Projects

Significant Budget Adjustments (continued)

Water/Wastewater - Field Engineering (continued)	Positions	Cost
Staffing and Support for Water and Wastewater Construction Inspection Surveying Support Addition of 2.00 Land Surveying Assistants, 2.00 Senior Survey Aides, and 1.00 Principal Survey Aide and support to provide direct surveying support for Capital Improvements Program projects during both design and construction phases. The survey staff performs topographic field surveys, control surveys for aerial mapping, determines property boundaries and easements, and performs construction staking.	5.00 \$	513,382
Non-Discretionary Adjustments to reflect expenses that are determined outside of the department's direct control. Examples of these adjustments include utilities, insurance, and rent.	0.00 \$	225,355
Staffing and Support for Ballpark and Pipeline Construction Addition of 2.00 Associate Civil Engineers and support to manage, monitor, and inspect public improvements associated with the construction of the Ballpark, and pipeline construction and replacement.	2.00 \$	218,660
Support for Contractual Attorney Services Contractual service to provide for attorney services to Water and Wastewater Construction Inspection during mediation and other legal matters per Memorandum of Understanding with City Attorney's Office.	0.00 \$	197,040
Onetime Expense for Contractual Service Onetime expenditure to cover costs to transfer used trailers to Aero Drive Field Engineering facility, as well as foundations, electrical and other related costs for office expansion.	0.00 \$	60,000
Support for Water and Wastewater Construction Inspection Equipment Addition of funding for new equipment to monitor construction sites.	0.00 \$	10,700

Engineering and Capital Projects

Engineering and Capital Projects			
	FY 2001 ACTUAL	FY 2002 BUDGET	FY 2003 PROPOSED
Positions	351.60	415.02	462.52
Personnel Expense	\$ 26,472,752	\$ 31,914,961	\$ 36,812,622
Non-Personnel Expense	15,803,592	18,509,287	20,434,872
TOTAL	\$ 42,276,344	\$ 50,424,248	\$ 57,247,494

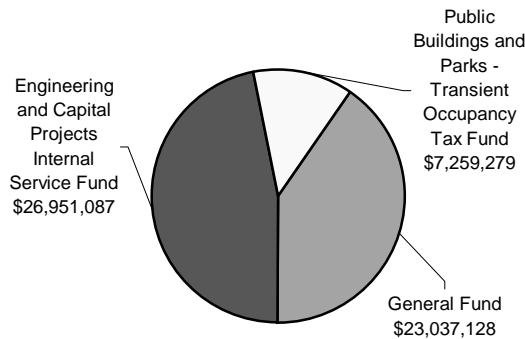
Department Staffing	FY 2001 ACTUAL	FY 2002 BUDGET	FY 2003 PROPOSED
GENERAL FUND			
Administration	6.10	17.38	17.38
Field Engineering	111.20	117.70	117.70
Public Buildings and Parks	18.50	34.00	36.00
Transportation and Drainage Design	58.00	65.00	69.00
Total	193.80	234.08	240.08
ENGINEERING AND CAPITAL PROJECTS			
INTERNAL SERVICE FUND			
Water/Wastewater Facilities	104.34	131.34	155.84
Field Engineering - Water/Wastewater	44.10	49.60	66.60
Total	148.44	180.94	222.44
TRANSIENT OCCUPANCY TAX (TOT) FUNDS			
Public Buildings and Parks - Transient Occupancy Tax (TOT) Fund	9.36	0.00	0.00
Total	9.36	0.00	0.00

Engineering and Capital Projects

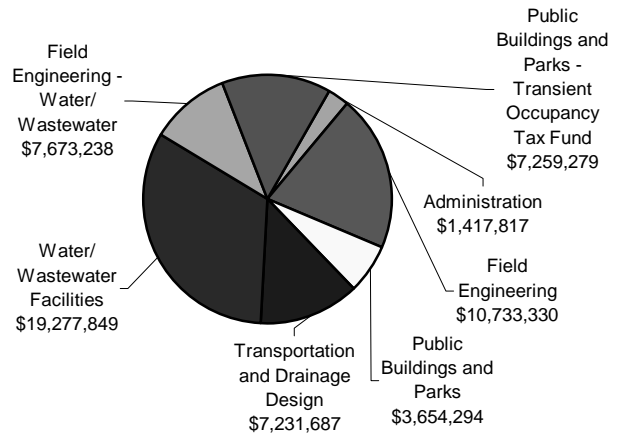
Department Expenditures	FY 2001 ACTUAL	FY 2002 BUDGET	FY 2003 PROPOSED
GENERAL FUND			
Administration	\$ 695,079	\$ 1,364,759	\$ 1,417,817
Field Engineering	9,464,549	10,208,188	10,733,330
Public Buildings and Parks	1,787,007	3,340,306	3,654,294
Transportation and Drainage Design	5,326,067	6,540,177	7,231,687
Total	\$ 17,272,702	\$ 21,453,430	\$ 23,037,128
ENGINEERING AND CAPITAL PROJECTS			
INTERNAL SERVICE FUND			
Water/Wastewater Facilities	\$ 12,258,500	\$ 16,478,059	\$ 19,277,849
Field Engineering - Water/Wastewater	4,051,849	5,296,890	7,673,238
Total	\$ 16,310,349	\$ 21,774,949	\$ 26,951,087
TRANSIENT OCCUPANCY TAX (TOT) FUNDS			
Public Buildings and Parks - Transient Occupancy Tax (TOT) Fund	\$ 8,693,293	\$ 7,195,869	\$ 7,259,279
Total	\$ 8,693,293	\$ 7,195,869	\$ 7,259,279

Engineering and Capital Projects

Source of Funding



Allocation of Funding



Budget Dollars at Work

341 Water/Wastewater projects administered
 \$529.4 Million in total Water/Wastewater projects budgets
 27.8 Miles of concrete sewer pipes replaced
 13.2 Miles of cast iron pipes replaced
 11 Acres of wetlands created as part of the Los Penasquitos Canyon Mitigation Project
 2 Fire stations (Fire Station #37 in Scripps Ranch and Fire Station #44 in Mira Mesa) completed
 1 Library (Mission Valley Branch Library) constructed
 1 Environmental Service operations yard completed

Park projects completed:

1 Fence replacement
 1 Lighting installation
 6 Road widenings/reconstructions/parking lots
 1 Gym refurbishing (muni gym)
 3 Parks
 1 Garden/fountain
 3 Comfort stations
 6 Americans with Disabilities Act compliances (access ramp/upgrade tot lots)
 7 Picnic shelters
 1 Tennis court
 2 Tot lot upgrades
 37 Deferred Maintenance projects
 1 Task of completing Balboa Park signs
 1 Task of completing QUALCOMM air conditioning chillers

Engineering and Capital Projects

Key Performance Measures

	FY 2001 Actual	FY 2002 Budget	FY 2003 Proposed
Average cost per construction project inspection to ensure City contracted projects and buildings inspected meet City design and standard specifications ⁽¹⁾	\$16,483	\$27,619	\$19,522
Average cost per materials test to ensure materials are manufactured according to specifications and to ensure quality control of material placement	\$20.28	\$21.83	\$22.13
Average cost per construction point (wood stakes used for various measurements at construction sites) staked	\$24.14	\$25.60	\$26.88
Average cost per water and wastewater facilities project inspected to meet City design and standard specifications	\$31,943	\$32,360	\$32,588
Average cost per roadway and street project managed ⁽²⁾	N/A	\$38,602	\$33,749
Average cost per storm drain and flood control project managed ⁽²⁾	N/A	\$20,743	\$17,602
Average cost per traffic signal project managed ⁽²⁾	N/A	\$12,405	\$11,469
Average cost per mile of water and sewer main planned, designed and managed ⁽³⁾	\$112,159	\$176,652	\$167,435

⁽¹⁾ Fiscal Year 2003 decrease is a result of restructuring to consolidate administrative staff.

⁽²⁾ The division underwent major restructuring between Fiscal Year 2001 and Fiscal Year 2002. For Fiscal Year 2003 data processing was consolidated into a new activity.

⁽³⁾ The division underwent major restructuring between Fiscal Year 2001 and Fiscal Year 2002.

Division/Major Program Descriptions

Administration

The Administration Division provides Management, Fiscal Support Services and Contract Processing.

The Management section provides the overall planning, direction and coordination of the operation programs.

The Fiscal Support Services section maintains fiscal control; coordinates preparation of the departmental program budget; conducts special studies and analyses of administrative and fiscal practices; develops, coordinates and carries out department-wide programs; and provides departmental personnel coordination and payroll support.

The Contract Processing section assists project managers in developing a contract package by providing specification standards and City policy direction; distributing and monitoring Citywide plan checks; and reviewing Requests for Council Action, City Manager Action and Manager Approval for accuracy and completeness and processing them for approval, advertising and award.

Field Engineering

The Field Engineering Division provides construction management, survey support, and materials testing for City Capital Improvements Program projects. This includes services to all public and private bridge developments; public buildings such as fire stations, police stations, libraries and recreation facilities and parks; and public streets i.e., storm drains, sidewalks, curbs and gutters, traffic signals, street lights, and vehicular, bike and pedestrian projects.

The Construction Inspection Program provides construction management, administration and inspection services during construction of City and private contracts. The goal of this program is to ensure that the specified standards and qualities for all improvements are met with thorough and consistent inspection services.

The Materials Lab Program provides laboratory, field and manufacturing plant tests to ensure the adequacy and standards of all materials used during construction are maintained.

The Land Survey Program conducts precise land, aerial, hydrographic, topographic and construction surveys upon which the construction projects are based.

The Field Engineering – Water/Wastewater section provides Wastewater – Facilities Construction Inspection and Water – Facilities Construction Inspection. These programs provide construction management, administration and inspection services during construction of City wastewater and water facilities. The goal of these programs is to ensure that the specified standards and qualities for all wastewater and water facilities are met with thorough and consistent inspection services.

Engineering and Capital Projects

Division/Major Program Descriptions (continued)

Public Buildings and Parks

The Public Buildings and Parks Division provides project management including consultant selection, design, environmental review, construction and closeout phases for all park, police, fire, and library facilities. This division also provides project assistance for non-profit agency Community Development Block Grant funded projects. Public Buildings and Parks provides detailed reviews of Capital Improvements Program projects for compliance with the federal and state accessibility regulations. In addition, Job Order Contract (JOC) and Primavera scheduling support is provided.

The Community Development Block Grant Private Agency Projects Program provides project assistance for non-profit agency Community Development Block Grant funded projects such as training center, health clinic, non-profit agency center, private school, recreation center, and sports field improvements. Project assistance is provided in project initiation, consultant selection, planning, design, environmental review, contract processing, construction and closeout.

The Major Buildings (fire stations, libraries, police stations) Program provides project management for public building projects such as libraries, fire stations, police stations, and community service centers. Project management includes moving these projects through initiation, consultant selection, design, environmental review, contract processing, construction and closeout.

The Park Facilities Program provides project management for all park facility projects. Project management includes moving these projects through initiation, consultant selection, design, environmental review, contract processing, construction and closeout.

The Project Management Support Program provides the JOC and Primavera system support for the department and additional project management.

The Americans with Disabilities Act/Title 24 Compliance Program provides detailed reviews of Capital Improvements Program projects for compliance with the federal and state accessibility regulations.

This division also maintains a portion of the Transient Occupancy Tax fund. These funds are utilized for the contractual operation of the Balboa Park Tram; the debt service for Balboa Park/Mission Bay Park Improvement Program Certificates of Participation Phases 1A, 1B, and 1C; the annual allocation reimbursement agreement to the Natural History Museum which will continue through Fiscal Year 2005; and support for Financial Management and Auditor services.

Division/Major Program Descriptions (continued)

Transportation and Drainage Design

Transportation and Drainage Design Division provides design and project management for various transportation improvement projects, storm drains, traffic signals, bridges, coastal low flow diversion, coastal erosion, street lights, pedestrian ramps, local streets and bikeways.

Programs within this division include: Architectural Barriers and Pedestrian Access program; Bikeways and Trails (hiking and equestrian); Bridge program for new bridges, retrofits, enhancements and barrier rail projects; Erosion Control/Slope Restoration program that includes monitoring environmental re-vegetation projects; Roadway and Street program for roadway widening and improvement projects, including street medians, street enhancements, guardrails and safety barriers; Special Projects Program that includes State Route 56, Ballpark Infrastructure; Traffic Control Program that provides review of traffic control plans and permits; the Underground Utility Districts Program; Storm Drains and Flood Control Program that includes low flow diversion projects; and Traffic Signals Program that provides services for traffic signals and street lights, traffic signal interconnects, and traffic signal modifications.

Water/Wastewater Facilities

The Water and Wastewater Facilities Division provides professional engineering services and quality water/wastewater facilities for the Water Department, Metropolitan Wastewater Department and its customers.

The Water/Wastewater Facilities Division consists of three primary functions.

The Administration section provides management and direction for the Preliminary Engineering Program, design of Water and Wastewater Capital Improvements Programs and for the execution of the Capital Improvements Program for the Water and Metropolitan Wastewater Departments.

The Water and Wastewater Design sections provide construction drawings, specifications and cost estimates for construction of system upgrades, plant expansions, reservoirs, pump stations, sewer mains, and other facilities; and conducts special studies designed to maintain the efficiency of the water and wastewater operating systems.

The Water and Wastewater Program Management and Engineering Support sections provide water and wastewater preliminary engineering studies, project analysis management system tracking, Computer Aided Drafting and Design (CADD) and fiscal and clerical support plotting services; develops and implements InSewer software program and CADD applications; and serves as the liaison for data processing services.

Engineering and Capital Projects

Salary Schedule

GENERAL FUND

Administration

<i>Class</i>	<i>Position Title</i>	<i>FY2002 Positions</i>	<i>FY2003 Positions</i>	<i>Salary and Fringe</i>	<i>Total</i>
1105	Administrative Aide I	0.00	1.00	52,636	52,636
1106	Senior Management Analyst	1.00	1.00	82,619	82,619
1107	Administrative Aide II	1.00	1.00	57,969	57,969
1153	Assistant Engineer-Civil	1.00	1.00	77,335	77,335
1218	Associate Management Analyst	1.00	1.00	73,969	73,969
1221	Associate Engineer-Civil	1.00	1.00	89,748	89,748
1535	Clerical Assistant II	3.00	2.00	41,622	83,244
1648	Payroll Specialist II	1.00	1.00	49,106	49,106
1746	Word Processing Operator	3.00	3.00	42,955	128,865
1855	Senior Civil Engineer	1.00	1.00	103,708	103,708
1876	Executive Secretary	0.69	0.69	60,380	41,662
1879	Senior Clerk/Typist	1.00	1.00	50,725	50,725
1926	Information Systems Analyst IV	1.00	1.00	90,082	90,082
2117	Asst To The Eng & Cap Proj Dir	0.84	0.84	118,887	99,865
2147	Eng & Cap Proj Director	0.84	0.84	162,350	136,374
2153	Deputy City Manager	0.01	0.01	208,800	2,088
	Reg Pay For Engineers	0.00	0.00		8,064
	Field Training Pay	0.00	0.00		3,144
	Total	17.38	17.38	\$	1,231,203

Field Engineering

<i>Class</i>	<i>Position Title</i>	<i>FY2002 Positions</i>	<i>FY2003 Positions</i>	<i>Salary and Fringe</i>	<i>Total</i>
1104	Account Clerk	2.00	2.00	44,540	89,080
1107	Administrative Aide II	0.50	0.50	57,980	28,990
1153	Assistant Engineer-Civil	37.00	37.00	77,335	2,861,407
1157	Assistant Engineer-Electrical	3.00	3.00	79,498	238,493
1218	Associate Management Analyst	1.00	1.00	73,969	73,969
1221	Associate Engineer-Civil	9.00	9.00	89,751	807,756
1223	Associate Engineer-Electrical	0.00	1.00	91,012	91,012
1225	Associate Engineer-Mechanical	1.00	1.00	91,003	91,003
1348	Information Systems Analyst II	1.00	1.00	73,123	73,123
1525	Principal Survey Aide	10.00	9.00	68,999	620,993
1535	Clerical Assistant II	5.00	4.00	41,627	166,508
1648	Payroll Specialist II	1.00	1.00	49,106	49,106
1727	Principal Engineering Aide	11.00	11.00	67,976	747,737
1746	Word Processing Operator	1.00	1.00	42,955	42,955

Engineering and Capital Projects

Salary Schedule (continued)

Field Engineering (continued)

<i>Class</i>	<i>Position Title</i>	<i>FY2002 Positions</i>	<i>FY2003 Positions</i>	<i>Salary and Fringe</i>	<i>Total</i>
1751	Project Officer I	1.00	1.00	89,182	89,182
1855	Senior Civil Engineer	6.00	6.00	103,712	622,269
1879	Senior Clerk/Typist	1.50	1.50	50,739	76,108
1881	Senior Survey Aide	6.00	6.00	59,867	359,200
1935	Senior Land Surveyor	1.00	1.00	104,267	104,267
1938	Land Surveying Assistant	13.00	14.00	80,635	1,128,883
1939	Land Surveying Associate	5.00	5.00	93,378	466,888
2214	Deputy Director	0.85	0.85	130,938	111,297
2250	Assistant Deputy Director	0.85	0.85	119,079	101,217
	Reg Pay For Engineers	0.00	0.00		148,146
	Field Training Pay	0.00	0.00		59,493
	Temporary Help	0.00	0.00		68,003
	Overtime Budgeted	0.00	0.00		64,971
	Total	117.70	117.70	\$	9,382,056

Public Buildings & Parks

<i>Class</i>	<i>Position Title</i>	<i>FY2002 Positions</i>	<i>FY2003 Positions</i>	<i>Salary and Fringe</i>	<i>Total</i>
1106	Senior Management Analyst	0.00	1.00	82,619	82,619
1153	Assistant Engineer-Civil	5.00	6.00	77,335	464,010
1218	Associate Management Analyst	2.00	1.00	73,969	73,969
1221	Associate Engineer-Civil	12.00	12.00	89,748	1,076,976
1223	Associate Engineer-Electrical	1.00	1.00	91,003	91,003
1225	Associate Engineer-Mechanical	1.00	1.00	91,003	91,003
1348	Information Systems Analyst II	0.00	1.00	73,120	73,120
1535	Clerical Assistant II	1.00	1.00	41,622	41,622
1638	Park Designer	1.00	0.00		0
1727	Principal Engineering Aide	1.00	1.00	67,973	67,973
1746	Word Processing Operator	1.00	1.00	42,955	42,955
1751	Project Officer I	2.00	3.00	89,170	267,510
1752	Project Officer II	3.00	3.00	103,382	310,146
1855	Senior Civil Engineer	2.00	2.00	103,714	207,428
1875	Structural Engineering Senior	1.00	1.00	99,189	99,189
2214	Deputy Director	1.00	1.00	130,886	130,886
	Reg Pay For Engineers	0.00	0.00		37,738
	Field Training Pay	0.00	0.00		12,186
	Total	34.00	36.00	\$	3,170,333

Engineering and Capital Projects

Salary Schedule (continued)

Transportation and Drainage Design

<i>Class</i>	<i>Position Title</i>	<i>FY2002 Positions</i>	<i>FY2003 Positions</i>	<i>Salary and Fringe</i>	<i>Total</i>
1107	Administrative Aide II	1.00	0.00		0
1153	Assistant Engineer-Civil	16.00	16.00	77,336	1,237,375
1207	Assistant Engineer-Traffic	6.00	8.00	78,687	629,496
1218	Associate Management Analyst	1.00	2.00	73,969	147,938
1221	Associate Engineer-Civil	12.00	10.00	89,749	897,493
1227	Associate Planner	0.00	1.00	71,216	71,216
1233	Associate Engineer-Traffic	6.00	7.00	90,532	633,724
1348	Information Systems Analyst II	1.00	1.00	73,120	73,120
1535	Clerical Assistant II	2.00	2.00	41,622	83,244
1555	Junior Engineering Aide	1.00	1.00	65,899	65,899
1725	Principal Drafting Aide	0.00	2.00	67,432	134,864
1727	Principal Engineering Aide	8.00	6.00	67,973	407,840
1746	Word Processing Operator	1.00	1.00	42,955	42,955
1752	Project Officer II	1.00	0.00		0
1855	Senior Civil Engineer	3.00	5.00	103,707	518,537
1872	Senior Planner	2.00	2.00	83,522	167,044
1878	Senior Traffic Engineer	1.00	2.00	104,253	208,506
1879	Senior Clerk/Typist	1.00	1.00	50,725	50,725
1917	Supervising Management Analyst	1.00	1.00	90,603	90,603
2214	Deputy Director	1.00	1.00	137,136	137,136
	Bilingual - Regular	0.00	0.00		1,238
	Reg Pay For Engineers	0.00	0.00		167,337
	Field Training Pay	0.00	0.00		54,466
	Temporary Help	0.00	0.00		48,776
	Total	65.00	69.00	\$	5,869,532
GENERAL FUND TOTAL		234.08	240.08	\$	19,653,124

Engineering and Capital Projects

Salary Schedule (continued)

ENGINEERING AND CAPITAL PROJECTS INTERNAL SERVICE FUND

Water/Wastewater Facilities

<i>Class</i>	<i>Position Title</i>	<i>FY2002 Positions</i>	<i>FY2003 Positions</i>	<i>Salary and Fringe</i>	<i>Total</i>
1104	Account Clerk	2.00	2.00	44,540	89,080
1106	Senior Management Analyst	2.00	2.00	82,632	165,264
1107	Administrative Aide II	2.00	2.00	57,969	115,938
1153	Assistant Engineer-Civil	42.00	48.00	77,335	3,712,083
1218	Associate Management Analyst	5.00	8.00	73,969	591,752
1221	Associate Engineer-Civil	20.00	24.00	89,751	2,154,013
1227	Associate Planner	1.00	3.00	71,216	213,649
1423	Senior Drafting Aide	16.00	15.00	59,093	886,400
1535	Clerical Assistant II	2.50	3.00	41,625	124,875
1648	Payroll Specialist II	1.00	1.00	49,106	49,106
1727	Principal Engineering Aide	21.00	25.00	67,973	1,699,333
1746	Word Processing Operator	3.00	8.00	42,955	343,640
1752	Project Officer II	1.00	1.00	103,402	103,402
1777	Public Information Officer	1.00	1.00	56,349	56,349
1844	Senior Account Clerk	1.00	1.00	50,505	50,505
1855	Senior Civil Engineer	6.00	6.00	103,713	622,278
1872	Senior Planner	1.00	1.00	83,543	83,543
1876	Executive Secretary	0.29	0.29	60,383	17,511
1879	Senior Clerk/Typist	0.00	1.00	50,725	50,725
1910	Student Engineer	0.25	0.25	35,832	8,958
1917	Supervising Management Analyst	1.00	1.00	90,603	90,603
2117	Asst To The Eng & Cap Proj Dir	0.15	0.15	118,893	17,834
2147	Eng & Cap Proj Director	0.15	0.15	162,347	24,352
2214	Deputy Director	1.00	1.00	130,886	130,886
2250	Assistant Deputy Director	1.00	1.00	118,859	118,859
	Ex Perf Pay-Classified	0.00	0.00		12,989
	Reg Pay For Engineers	0.00	0.00		109,910
	Temporary Help	0.00	0.00		33,056
	Overtime Budgeted	0.00	0.00		240,966
	Total	131.34	155.84	\$	11,917,859

Engineering and Capital Projects

Salary Schedule (continued)

Field Engineering - Water/Wastewater

<i>Class</i>	<i>Position Title</i>	<i>FY2002 Positions</i>	<i>FY2003 Positions</i>	<i>Salary and Fringe</i>	<i>Total</i>
1107	Administrative Aide II	0.50	0.50	57,984	28,992
1153	Assistant Engineer-Civil	29.00	39.00	77,335	3,016,064
1221	Associate Engineer-Civil	7.00	9.00	89,748	807,732
1525	Principal Survey Aide	2.00	2.00	68,998	137,996
1535	Clerical Assistant II	2.00	2.00	41,622	83,244
1648	Payroll Specialist II	0.25	0.25	49,148	12,287
1727	Principal Engineering Aide	2.00	2.00	67,973	135,946
1746	Word Processing Operator	1.00	1.00	42,951	42,951
1855	Senior Civil Engineer	3.00	3.00	103,710	311,130
1876	Executive Secretary	0.03	0.03	60,400	1,812
1879	Senior Clerk/Typist	0.50	0.50	50,728	25,364
1881	Senior Survey Aide	0.00	3.00	59,867	179,601
1938	Land Surveying Assistant	2.00	4.00	80,633	322,532
2117	Asst To The Eng & Cap Proj Dir	0.01	0.01	118,900	1,189
2147	Eng & Cap Proj Director	0.01	0.01	162,300	1,623
2214	Deputy Director	0.15	0.15	130,893	19,634
2250	Assistant Deputy Director	0.15	0.15	118,893	17,834
	Reg Pay For Engineers	0.00	0.00		69,082
	Field Training Pay	0.00	0.00		18,310
	Overtime Budgeted	0.00	0.00		8,316
	Total	49.60	66.60	\$	5,241,639
ENGINEERING AND CAPITAL PROJECTS		180.94	222.44	\$	17,159,498
INTERNAL SERVICE FUND					
ENGINEERING AND CAPITAL PROJECTS		415.02	462.52	\$	36,812,622
TOTAL					

Engineering and Capital Projects

Five-Year Expenditure Forecast

	FY 2003 PROPOSED	FY 2004 FORECAST	FY 2005 FORECAST	FY 2006 FORECAST	FY 2007 FORECAST
Positions	462.52	465.52	465.52	465.52	465.52
Personnel Expense	\$ 36,812,622	\$ 38,116,980	\$ 39,260,489	\$ 40,438,304	\$ 41,651,453
Non-Personnel Expense	20,434,872	21,143,326	21,777,626	22,430,955	23,103,883
TOTAL EXPENDITURES	\$ 57,247,494	\$ 59,260,306	\$ 61,038,115	\$ 62,869,259	\$ 64,755,336

Fiscal Year 2004

Field Engineering

Additional support for equipment replacement in the Materials Lab section to comply with Caltrans regulations.

Additional support for Survey Section for onetime expense to cover reconfiguration of space and equipment costs.

Addition of 2.00 positions and support for Construction Inspection section to support Underground Utilities Program.

Field Engineering – Water/Wastewater

Transfer of 1.00 position and support from Water and Metropolitan Wastewater Departments to Water and Wastewater Facilities Construction section.

Reduction of onetime expense from Water and Wastewater Facilities section for survey crew equipment.

Reduction of onetime expense from Water and Wastewater Facilities Construction section for miscellaneous contractual services.

Fiscal Year 2005-2007

No major projected requirements.

Engineering and Capital Projects

Revenue and Expense Statement

INTERNAL SERVICE FUND 50050

	FY 2001 ACTUAL	FY 2002 ESTIMATED	FY 2003 PROPOSED
BEGINNING BALANCE AND RESERVE			
Balance from Prior Year	\$ 430,049	\$ 777,824	\$ -
TOTAL BALANCE	\$ 430,049	\$ 777,824	\$ -
REVENUE			
Water Department Reimbursement	\$ 5,910,086	\$ 9,331,944	\$ 7,378,352
Metropolitan Wastewater Department Reimbursement	10,702,344	11,665,181	19,572,735
Other Operating Reimbursement	21,262	-	-
Other Non-Operating Revenue	107	-	-
Earnings on Investments	24,325	-	-
TOTAL OPERATING REVENUE	\$ 16,658,124	\$ 20,997,125	\$ 26,951,087
TOTAL BALANCE AND OPERATING REVENUE	\$ 17,088,173	\$ 21,774,949	\$ 26,951,087
EXPENSE			
Water/CIP Design	\$ 3,029,990	\$ 3,963,367	\$ 2,811,089
Water/CIP Field Engineering	852,979	2,406,849	3,150,952
Wastewater/CIP Design	3,504,289	6,944,704	10,308,884
Wastewater/CIP Field Engineering	1,871,290	2,890,041	4,522,287
Water/Wastewater Facilities-Administration	7,037,649	5,569,988	6,157,875
Other Non-Utilities Expense	14,152	-	-
TOTAL OPERATING EXPENSE	\$ 16,310,349	\$ 21,774,949	\$ 26,951,087
RESERVE	\$ -	\$ -	\$ -
BALANCE	\$ 777,824	\$ -	\$ -
TOTAL EXPENSE, RESERVE AND BALANCE	\$ 17,088,173	\$ 21,774,949	\$ 26,951,087

Engineering and Capital Projects

Revenue and Expense Statement

TRANSIENT OCCUPANCY TAX FUNDS 102240,102244

	FY 2001 ACTUAL	FY 2002 ESTIMATED	FY 2003 PROPOSED
BEGINNING BALANCE AND RESERVE			
Balance from Prior Year	\$ 213,980	\$ 177,604	\$ 919,247
Reserve for Encumbrances	1,207,640	1,356,855	1,356,855
Reserve for Advances and Deposits	-	-	-
Prior Year Continuing Appropriations	2,409,683	1,495,921	1,495,921
Reserve for Debt Service	-	-	-
TOTAL BALANCE	\$ 3,831,303	\$ 3,030,380	\$ 3,772,023
REVENUE			
Transfer from Transient Occupancy Tax Fund	\$ 7,788,499	\$ 7,989,632	\$ 7,989,632
Charges for Current Service	103,871	-	-
TOTAL OPERATING REVENUE	\$ 7,892,370	\$ 7,989,632	\$ 7,989,632
TOTAL BALANCE AND OPERATING REVENUE	\$ 11,723,673	\$ 11,020,012	\$ 11,761,655
EXPENSE			
Prior Year Expenses	\$ 2,102	\$ 2,200	\$ -
Mission Bay/Balboa Park Projects	1,007,716	-	-
Project Management	1,051,437	123,997	123,997
Balboa Park Tram	299,381	297,461	247,541
Transfer to Debt Service Funds	6,312,033	6,524,331	6,587,741
Transfer to Natural History Museum	-	300,000	300,000
Transfer to A-List Fund	20,624	-	-
TOTAL OPERATING EXPENSE	\$ 8,693,293	\$ 7,247,989	\$ 7,259,279
RESERVE			
Reserve for Encumbrances	\$ 1,356,855	\$ 1,356,855	\$ 1,356,855
Reserve for Continuing Appropriations	1,495,921	1,495,921	1,495,921
Reserve for Debt Service	-	-	-
TOTAL RESERVE	\$ 2,852,776	\$ 2,852,776	\$ 2,852,776
BALANCE	\$ 177,604	\$ 919,247	\$ 1,649,600
TOTAL EXPENSE, RESERVE AND BALANCE	\$ 11,723,673	\$ 11,020,012	\$ 11,761,655

